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The expression

$$v = \frac{D}{kT} (qI - \frac{q^2}{\sigma} I^2) = \frac{1}{k} \frac{D}{\sigma} (qI - \mu I^2) D$$

is derived for the mean velocity ( $v$ ) of an atom, in a crystal lattice, that is acted on by (1) the electric field produced by passing a current through the metal and (2) the collision of conduction electrons through the crystal lattice. Here  $q$  is the charge on the ion,  $\delta$  is the unit shift,  $i$  is current density,  $\sigma$  is specific conductivity,  $D$  is the diffusion coefficient in the (Physica--Solid State, TT, v. 5, no. 9) (over)

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